

Attorney Docket No. SAM-0219

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BOX PATENT APPLICATION **Assistant Commissioner for Patents**

Wash	ington, D.C. 20231 <u>NEW APPLICATION</u>	TRANSMITTAL
Transı	mitted herewith for filing is the patent application of	
Invent	tor(s): Jae-Phil Boo Soo-Young Tak Kwang-Bok Kim Kyung-Hyun Kim Chang-Ki Hong	
For (ti	itle): METHOD OF FABRICATING A NON-VOLATILE MEMORY DEVICE HAVING A TUNNEL-INSULATING LAYER INCLUDING MORE THAN TWO PORTIONS OF DIFFERENT THICKNESS	CERTIFICATE OF MAILING 37 C.F.R. § 1.10 "Express Mail" Mailing Label Number EL799313964US I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to BOX PATENT APPLICATION, Assistant Commissioner for Patents, Washington, DC 20231.
1.	Type of Application This new application is for a(n)	Date: July 10, 2001 Jun Danders LISA SANDERS Print Name
	☑ Original (nonprovisional) ☐ Design	
	□ Plant	
	☐ Divisional.	
	☐ Continuation.	
	☐ Continuation-in-part (C-I-P).	
2. I	Benefit of Prior Application(s)	
	The new application being transmitted clair 00-39609.	ns the benefit of prior Korean application no.
3.	Papers Enclosed	
	9 Pages of specification	
	2 Pages of claims	
	1 Page of Abstract	
	6 Sheets of drawings ☑ formal ☐ informal	

Page of Cover Sheet

		enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT TOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).
4.	Addi	onal papers enclosed
		Preliminary Amendment
		Information Disclosure Statement (37 C.F.R. 1.98)
		Form PTO-1449 (PTO/SB/08A and 08B)
		Copies of cited references
	Declaration of Biological Deposit	
	Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleoticle and/or amino acid sequence.	
		Authorization of Attorney(s) to Accept and Follow Instructions from Representative
☐ Special Comments		Special Comments
	\boxtimes	Other: Return Postcard.
5.	Dec	aration or oath
	\boxtimes	Enclosed
		☐ Unexecuted
		☑ Executed by
		inventors inventors
		legal representative of inventor(s). 37 CFR 1.42 or 1.43.
		joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.
		This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 12 below for fee.
		Not Enclosed
		Application is made by a person authorized under 37 C.F.R. 1.41 (c) on behalf of all the above named inventor(s). Showing that the filing is authorized.
_	A *	
6.	Assig	ment
	\boxtimes	An assignment of the invention to Samsung Electronics Co., Ltd.
		is attached. A separate □ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☑ FORM PTO 1595 is also attached. will follow.

7. Certified Copy

Certified copy(ies) of application(s)

Korea Country	00-39609 Appln. no.	November 7, 2000 Filed
Country	Appln. no.	Filed
Country	Appln. no.	Filed

from which priority is claimed

- is (are) attached.
- □ will follow.

8. Fee Calculation (37 C.F.R. 1.16)

		CLAIMS AS FILED		
	Number filed	Number Extra	Rate	Basic Fee 37 C.F.R. 1.16(a) \$710.00
Total Claims (37 CFR 1.16(c))	9 - 20 =	0	\$ 18.00	4.13100
Independent Claims (37 CFR 1.16(b))	1 -3=	0	\$ 80.00	
Multiple dependent claim if any (37 CFR 1.16(d))	(s),	+	\$270.00	

- A Preliminary Amendment canceling claims is enclosed. The filing fee is calculated based on the number of claims remaining after entry of the Preliminary Amendment.
- \square Amendment deleting multiple-dependencies is enclosed.
- ☐ Fee for extra claims is not being paid at this time.

Filing Fee Calculation

\$710.00

9.	Small E	Entity Statement(s)	
		Verified Statement(s) that this is a filing by a small entity	y under 37 CFR 1.9 and 1.27 is (are) attached.
		Status as a small entity was claimed in prior application _ from which benefit is being claimed for this application u	
	35	5 U.S.C. 119(e),	
		□ ₁₂₀ ,	
		□ _{121,}	
	□ 365(c),		
	and	d which status as a small entity is still proper and desired.	
		☐ A copy of the verified statement in the prior	r application is included.
		Filing Fee Calculation (50% of A,	B or C above)
		\$	
10.	Fee	e Payment Being Made at This Time	
		Not Enclosed	
		No filing fee is to be paid at this time. (This and the surcharge required by 3 7 C. F.R. 1.1)	6(e) can be paid subsequently.)
	×	Enclosed	
		☐ Basic filing fee	\$_710.00
		Duble Imag ive	<u> </u>
		☑ Recording assignment	
		(\$40.00; 37 C.F.R. 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT	
		ACCOMPANYING NEW APPLICATION".)	\$
		Total fees enclosed	\$750.00
11.	Met	thod of Payment of Fees	
		☐ Checks in the amounts of \$_710.00 and \$_40.00	
		☐ Charge Account No. 50-1798 in the amount of A duplicate of this transmittal is attached.	\$

12. **Authorization to Charge Additional Fees**

	The Commissioner is hereby authorized to charge the following additional fees during the entire pendency f this application to Account No. 50-1798.
	☑ 37 C.F.R. 1.16(a), (f) or (g) (filing fees)
	37 C.F.R. 1.16(b), (c) and (d) (presentation of extra claims)
	37 C.F.R. 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
	☐ 37 C.F.R. 1.17 (application processing fees)
	□ 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b))
Ins	tructions as to Overpayment

13.

 \boxtimes Credit Account No. 50-1798

☐ Refund

Eleven Beacon Street, Suite 605

Boston, MA 02108

Telephone: (617) 994-4900, Ext. 4901

Facsimile: (617) 742-7774

Respectfully submitted,

Registration Number 36,610 Attorney for Applicant

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Jae-Phil Boo, et al.

Filing Date:

Herewith

Title:

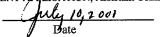
METHOD OF FABRICATING A NON-VOLATILE MEMORY DEVICE

HAVING A TUNNEL-INSULATING LAYER INCLUDING MORE THAN

TWO PORTIONS OF DIFFERENT THICKNESS

CERTIFICATE OF MAILING UNDER 37 C.F.R.§ 1.10

"Express Mail" Mailing Label Number <u>EL799313964US</u> I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to BOX PATENT APPLICATION, Assistant Commissioner for Patents, Washington, DC 20231.



Lisa Sanders

BOX PATENT APPLICATION

Assistant Commissioner for Patents

Washington, DC 20231

TRANSMITTAL LETTER

Sir:

Enclosed herewith for filing in the above-identified patent application please find the following listed items:

- 1. New Application Transmittal;
- 2. New Patent Application;
- 3. Executed Declaration, Petition and Power of Attorney;
- 4. Six (6) Sheets of Formal Drawings;
- 5. Certified Copy of Priority Document Korean Application No. 00-39609;
- 6. Check in the amount of \$710.00 to cover application filing fee;
- 7. Assignment Recordation Form Cover Sheet PTO-1595;
- 8. Executed Assignment;
- 9. Check in the amount of \$40.00 to cover Assignment Recordation fee; and
- 10. Return Postcard.

In connection with the foregoing matter, please charge any additional fees which may be due, or credit any overpayment, to Deposit Account Number 50-1798. <u>A duplicate copy of this letter is provided for this purpose</u>.

Respectfully submitted,

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Boston, MA 02108

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Steven M. Mills

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